

segments has been transferred in mass, without isolating individual library members, from a different library of vectors to said library of vectors, and wherein said library of polyclonal nucleic acid segments has been selected in mass before said transfer from a larger library of polyclonal nucleic acid segments wherein each nucleic acid segment encodes a pair of variable regions.

105. The library of vectors of claim 104 wherein the variable regions are antibody variable regions.

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106. The library of vectors of claim 104 wherein the variable regions are T cell receptor variable regions.

107. The library of vectors of claim 104 wherein said variable regions are derived from any receptor or combination of receptors that contain variable regions.

108. The library of vectors of claim 104 wherein said library of vectors is capable of expressing a library of receptor proteins wherein each receptor protein contains a pair of variable regions encoded by a nucleic acid segment of said library of polyclonal nucleic acid segments.

109. A population of host cells expressing a library of receptor proteins expressed from the library of vectors of claim 108.

110. A diagnostic kit for the detection of a disease or disorder in a patient comprising a library of antibodies or antibody fragments made by the method of claim of claim 50.

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